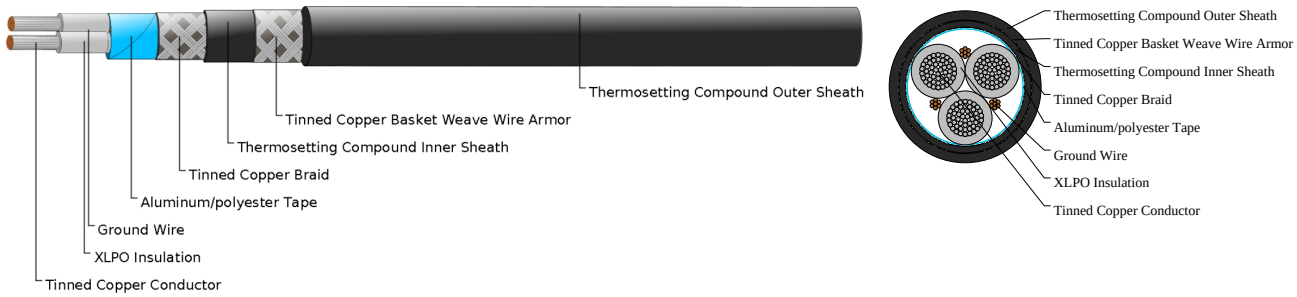
Caledonian

VFD Cable

www.caledonian-cables.com marketing@caledonian-cables.com

Armoured VFD Power Cable, 2kV

3C1AWG+3C10AWG Ground Wires



APPLICATIONS

These 2kV power cables specifically engineered for use in variable frequency AC motor drive (VFD) applications. Suitable for use in Class I, Division 1 and Zone1 environments (armored and sheathed).

VOLTAGE RATING

2kV

CABLE CONSTRUCTION

Conductor: Soft annealed flexible stranded tinned copper per IEEE 1580Table 11.
Insulation: Cross linked flame retardant polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245.
Ground Wires: Three stranded annealed copper conforming ground wires.
Filler: Non-hygroscopic filler tape.
Shield: Overall tinned copper braid plus aluminum/polyester tape providing 100% coverage.
Inner Sheath:Black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA 245 and IEEE 1580.
Armor: Tinned copper basket weave wire armor per IEEE 1580and UL 1309/CSA 245.
Outer Sheath: Black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL1309/CSA 245 and IEEE 1580.

COLOUR CODE

Color Gray with printed phase I.D. (Black-White-Red)

PHYSICAL AND THERMAL PROPERTIES

Maximum conductor temperature: + 90 °C
Minimum recommended installation temperature: -15 °C
Severe cold durability: exceeds CSA coldbend/cold impact (-40°C/-35°C)
Flame-retardant: IEC 60332-3-22 -test for bunched wires and cables, category A
Voltage Drop at 90°C:0.301 V/A/1000Ft
Ampacity at 110°C: 153
Ampacity at 100°C: 143

Caledonian

VFD Cable

www.caledonian-cables.com marketing@caledonian-cables.com

Ampacity at 90°C: 131

Ampacity at 75°C: 110

DIMENSION AND PARAMETERS

No. of Conductor	AWG Size	Ground Wire	Approx. Overall Diameter	Cable Weight
		AWG	in	Lbs./Kft
3	1	3x10	1.509	1836